

Figure 1. DSC Thermograms of Ash Monohydrate Product,  
Showing Evidence for A New Hydrate Complex of Ash-ATMP

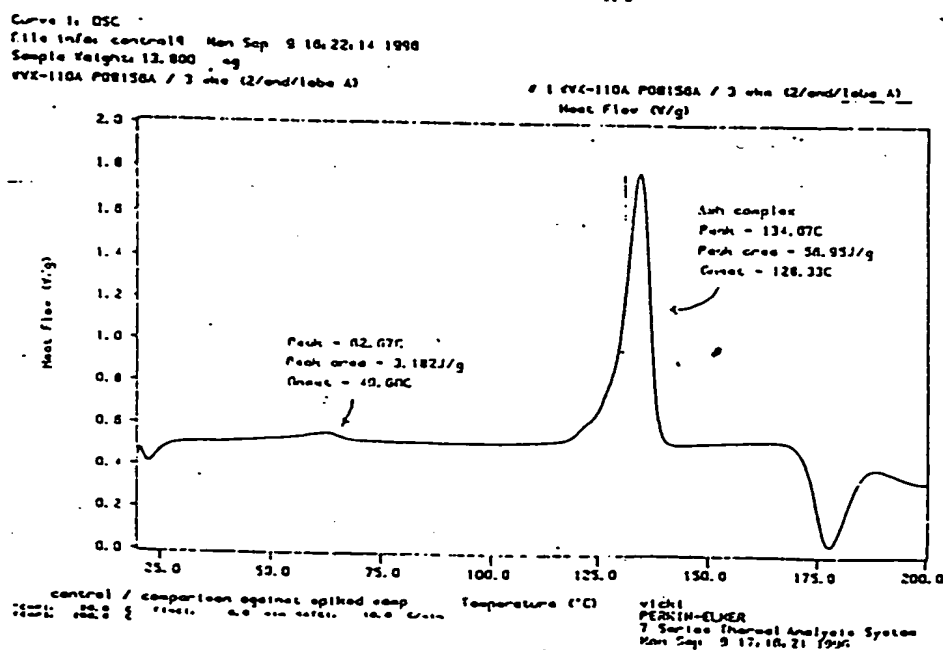
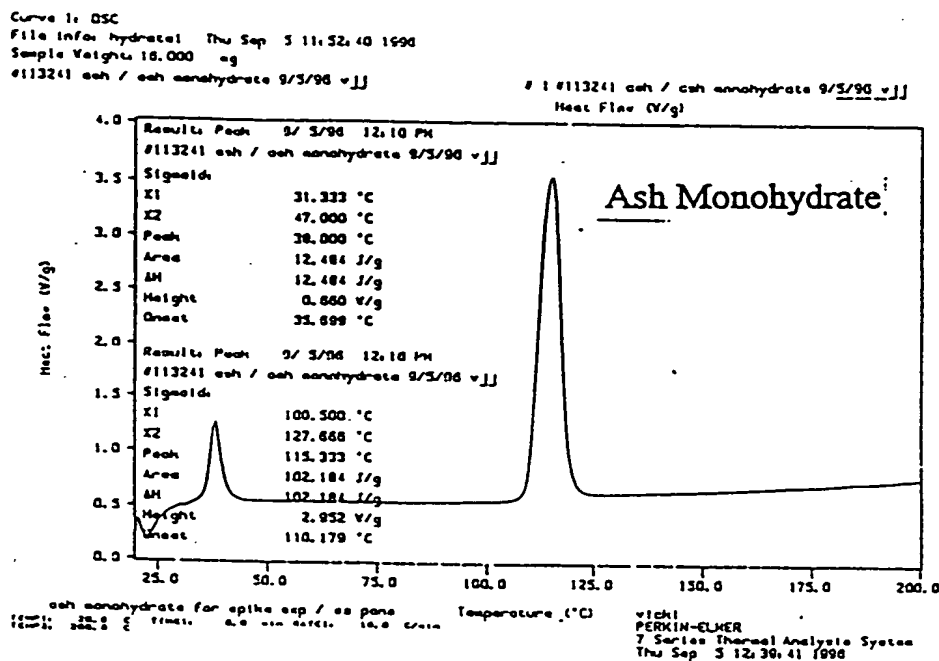


Figure 2. Spiking of Product with Ash Monohydrate

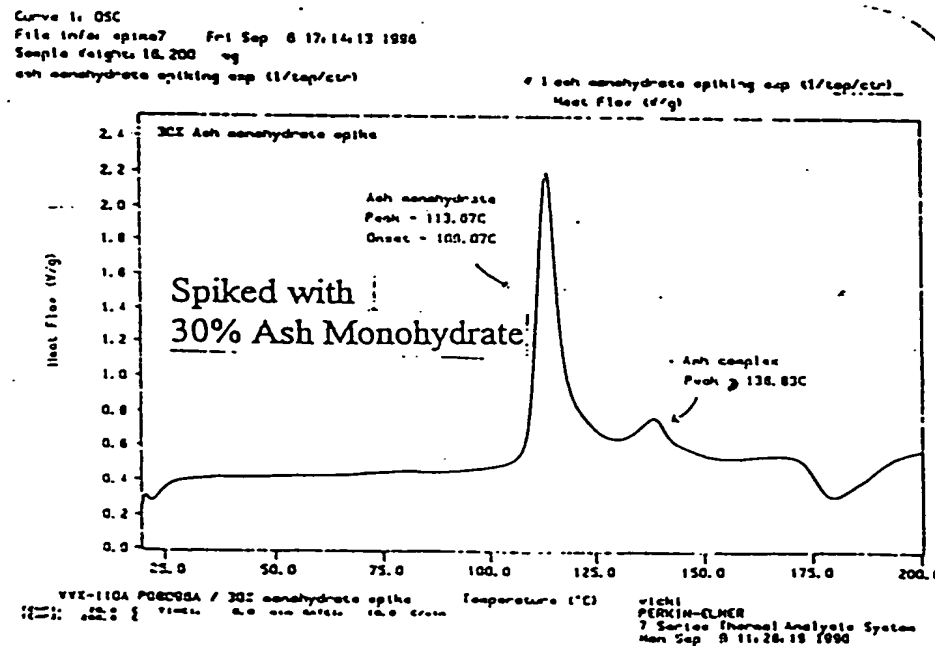
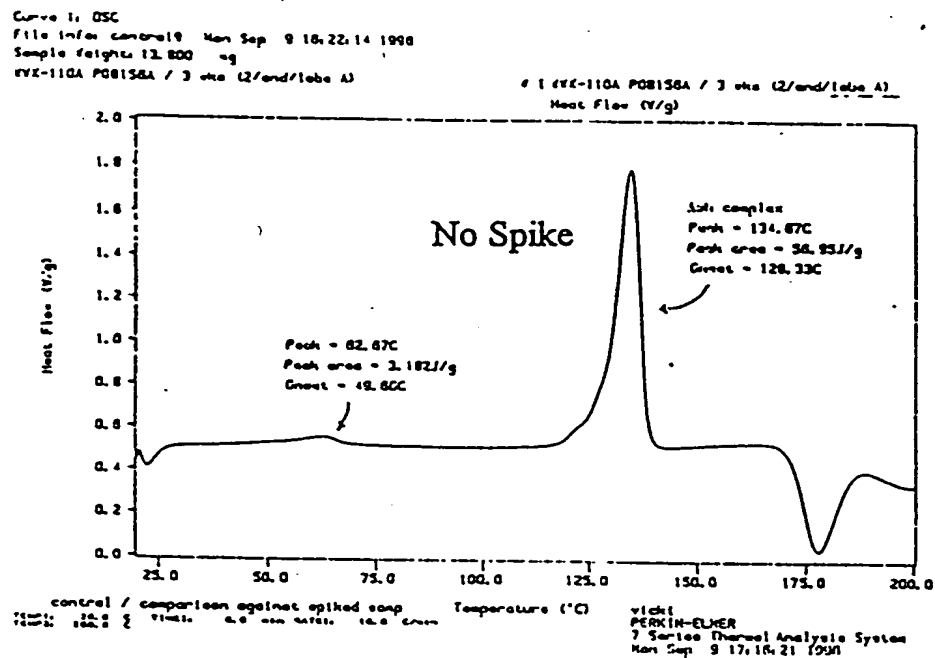
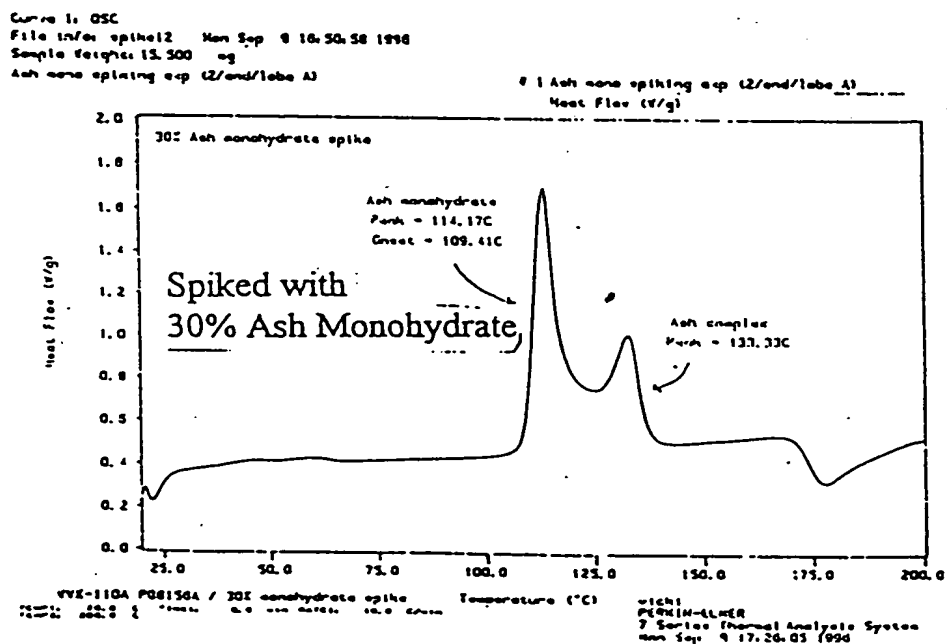
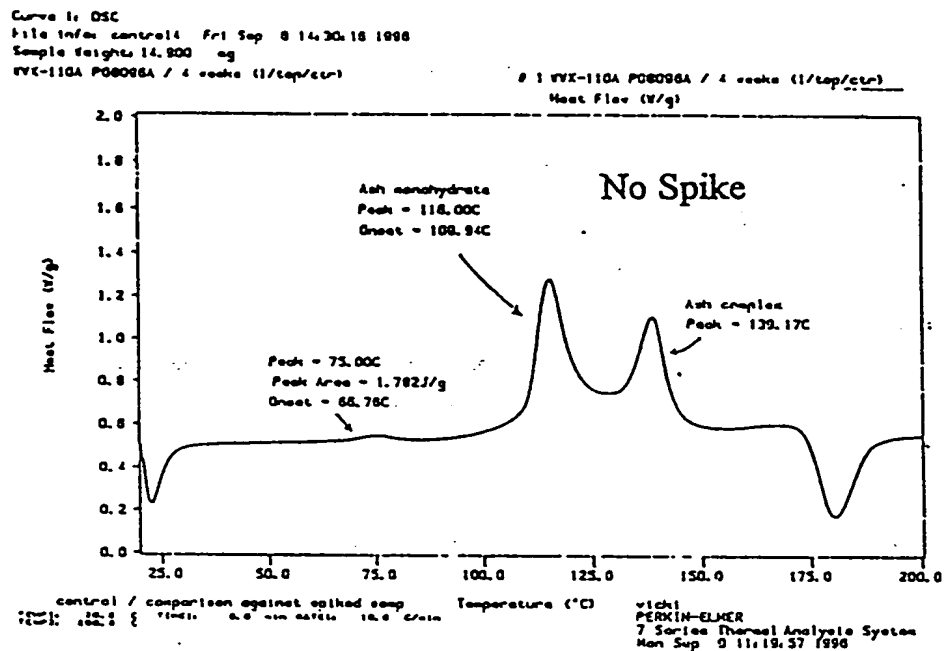


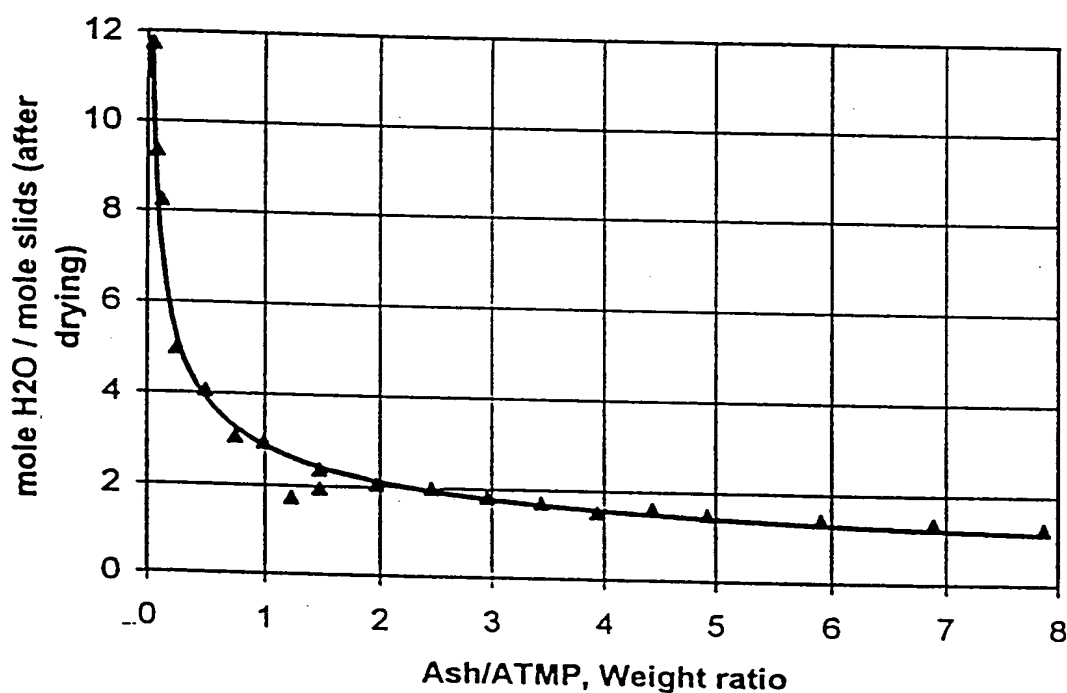
Figure 3. A Product Containing both Ash Monohydrate and the New Complex



Samples with molar ratios of Ash/ATMP = 1/6 to 32/1 were prepared and dried in 40 C and 50% RH chamber. Samples almost ready (still drying slowly) for DSC identification.

ATMP helps retain more H<sub>2</sub>O by lowering water activity in complex. However the rate of drying is also faster with higher lever of ATMP. Among the series, the 5/1 solution forms crystals fastest.

FIGURE 4  
Drying of Ash-ATMP Solutions



# FIGURES

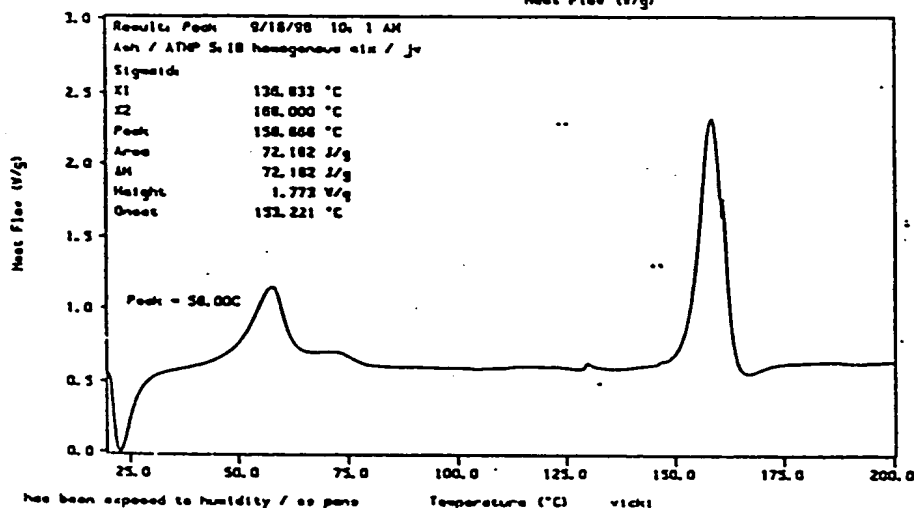
Curve 1: OSC

File info: completed Fri Sep 8 13:11:21 1998

Sample weight: 11.700 mg

Ash / ATMP 5:10 homogeneous mix / Jr

# 1 Ash / ATMP 5:10 homogeneous mix / Jr  
Heat Flow (W/g)



has been exposed to humidity / as per  
Time: 10:03:41

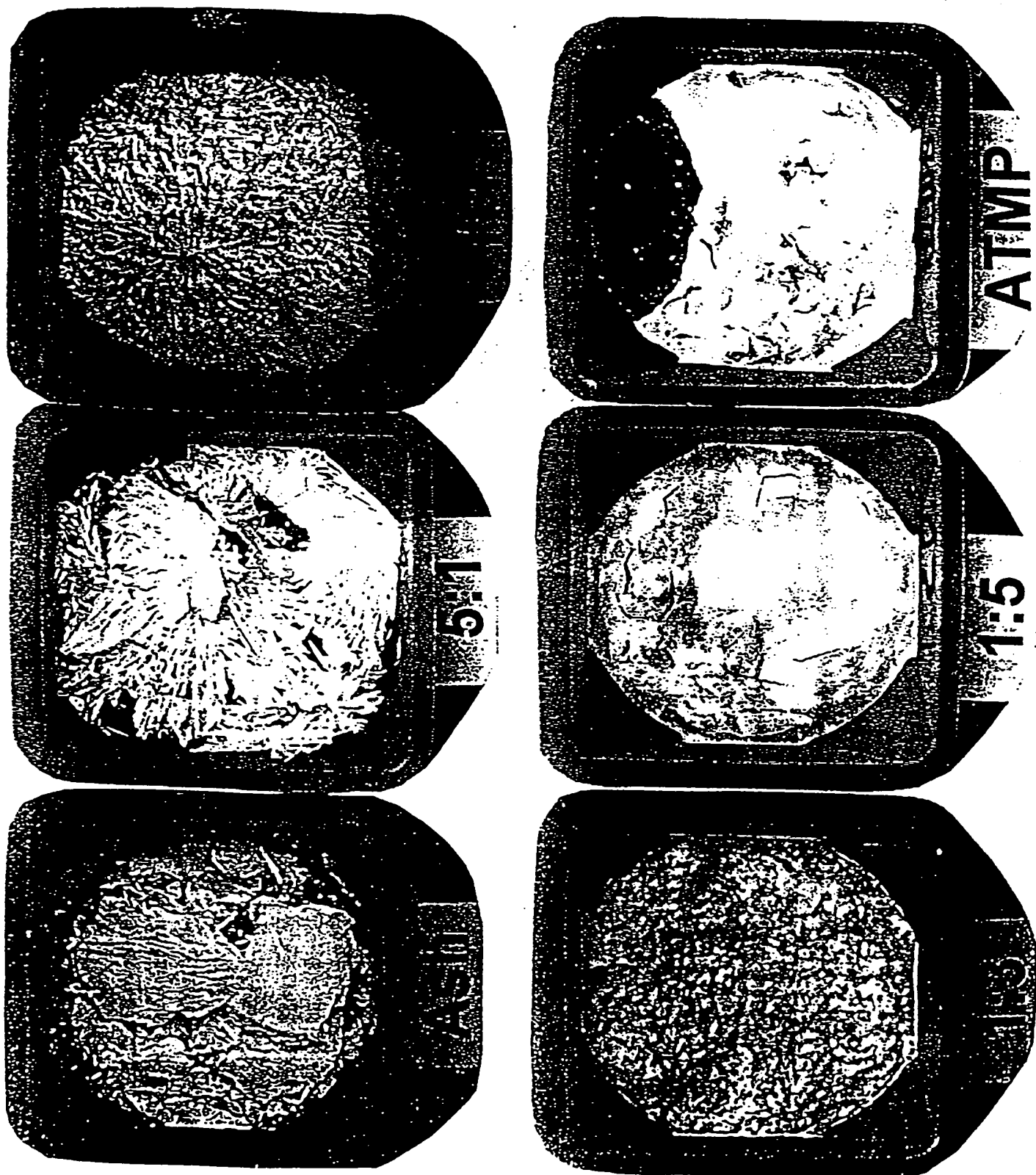
Temperature (°C)

Vicki  
PERKIN-ELMER  
7 Series Thermal Analysis System  
Mon Sep 18 10:03:41 1998

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Fig. 4

Molar Ratios of Ash/ATMP are indicated



File: C:ASH960816.003  
Operator: GJW  
Run Date: 17-Aug-96 13:12

# TGA

Sample: ASH HYDRATE 960816  
Size: 9.4640 mg  
Method: TGA -- Ash Hydrate  
Comment: 2 Deg/min

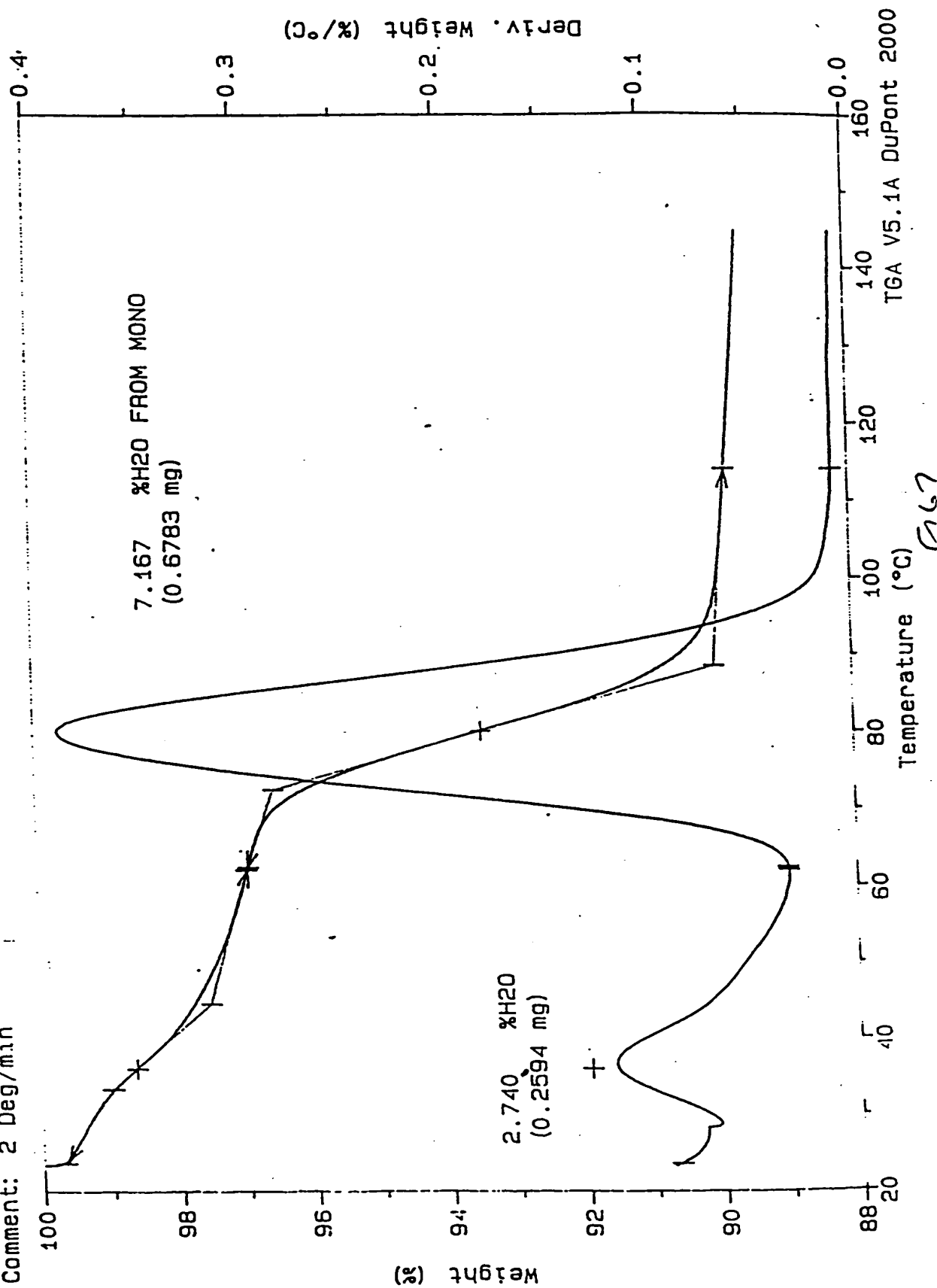
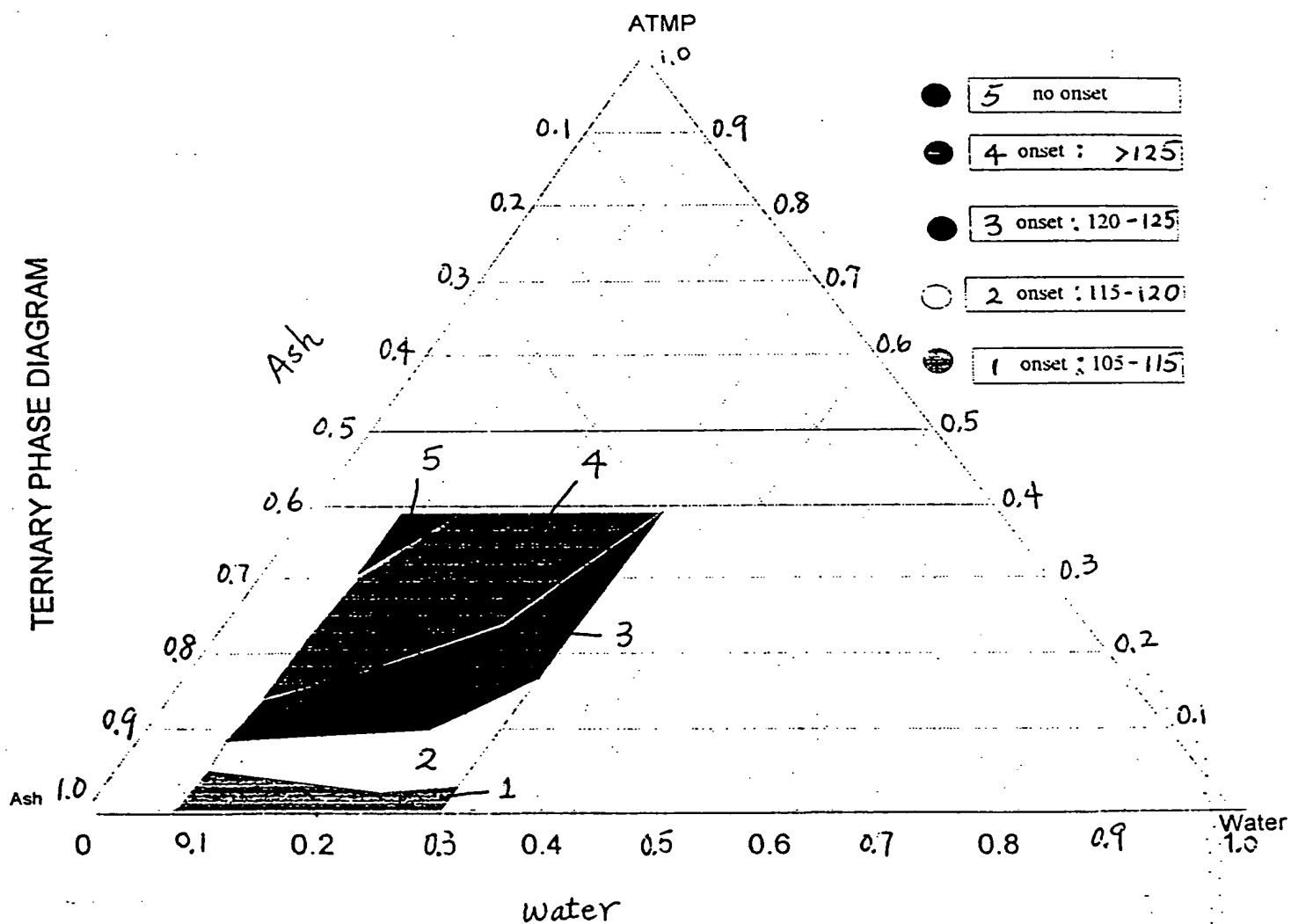


Figure 8



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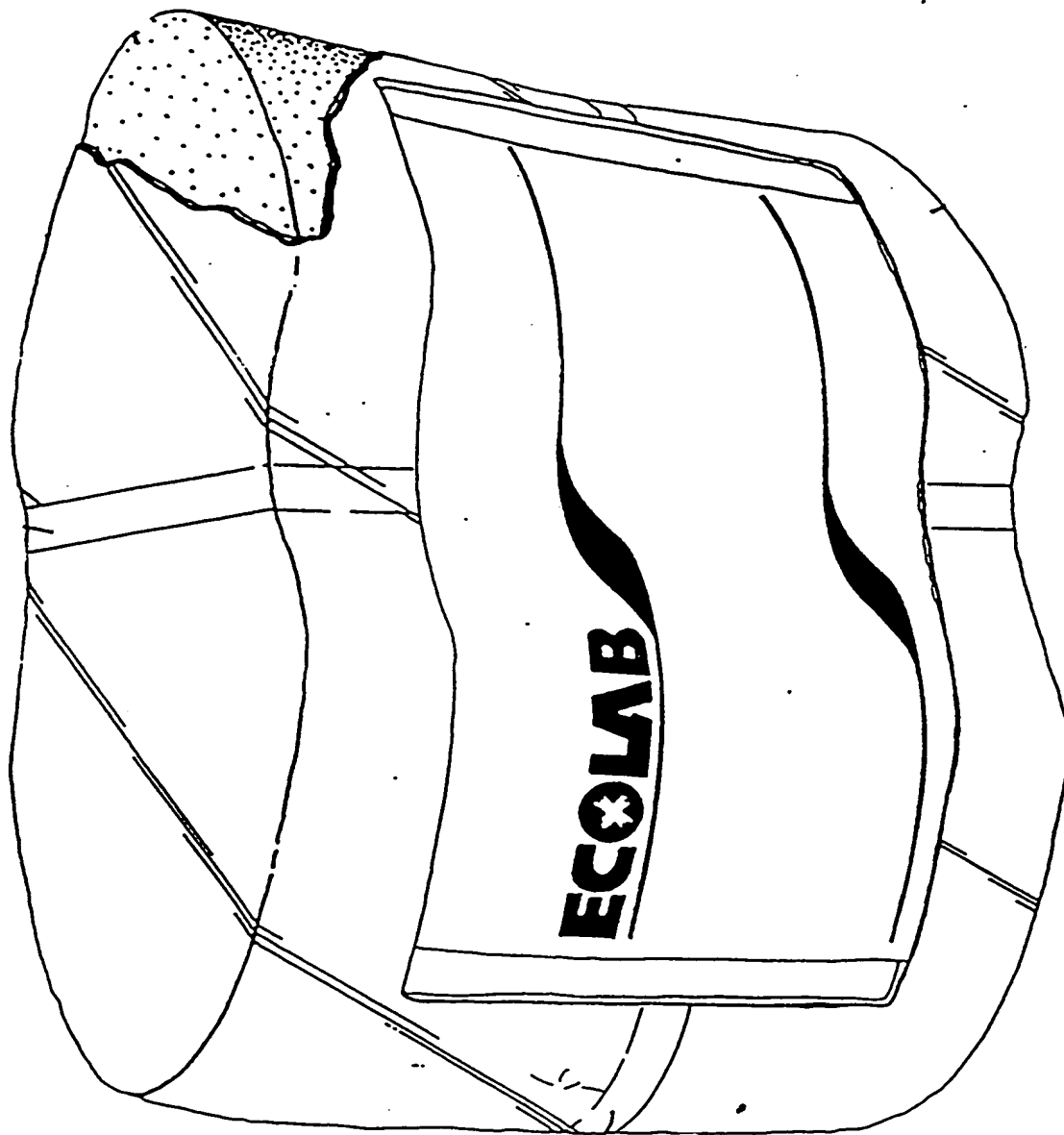


Fig. 9